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15 July 1964

MEMORANDUM FOR: Deputy Director for Science and Technology

SUBJECT

: Passive Frequency Measurement Program

- 1. Considerable advantage can accrue to the ELINT collection program if appropriate materials undergo detectable changes when subjected to electromagnetic radiation at frequency and power levels consistent with clandestine operations. The attached memorandum of 3 March 1964 indicates that some success along these lines may be achieved.
- 2. This memorandum was circulated to ORD with the hope that ORD would institute a suitable program to refine this technique. The Staff comment of 9 July was "The use of selected regions of electromagnetic radiation to initiate polymerization of monomers is known to industry and continues to be studied academically. While ORD is interested in progress in this area, present priorities preclude placing emphasis on the use of monomers to measure RF energy at this time."

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3	. In	view of the potential of this approach we	propose to
proceed wit	h the	program unless you oppose this action.	Further contac
with the		is pl	anned together
with prelim	inary	discussions with appropriate consultants	who may be
of assistance	:e		Physical
Chemist an	a		may be
particularly	help	oful.	

GEORGE C. MILLER
Assistant Director for ELINT

Attachment

Distribution:

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